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(71) Applicant (for all designated States except US): **ARGOSE, INC.** [US/US]; 230 Second Avenue, Waltham, MA 02451 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BELLOTT, Emile, M.** [US/US]; Beverly, MA (US). **BU, Dongsheng** [US/US]; Bedford, MA (US). **CHILDS, James, J.** [US/US]; Franklin, MA (US). **LAMBERT, Christopher, R.** [US/US]; 78 Manning Street, Hudson, MA 01749 (US). **NIENABER, Hubert, A.** [US/US]; Worcester, MA (US). **SHI, Shirley, J.** [US/US]; Lexington, MA (US). **WANG,**

Zhaolin [US/US]; Wellesley, MA (US). **WORKMAN, Jerome, J., Jr.** [US/US]; 299 Cypress Street, Brookline, MA 02445 (US). **ZELENCHUK, Alex, R.** [US/US]; 15 Orangewood Drive, Stoughton, MA 02072 (US).

(74) Agent: **ELRIFI, Ivor, R.**; Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C., One Financial Center, Boston, MA 02111 (US).

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(54) Title: SMMR (SMALL MOLECULE METABOLITE REPORTERS) FOR USE AS *IN VIVO* GLUCOSE BIOSENSORS

(57) Abstract: Small Molecule Metabolite Reporters (SMMRs) for use as *in vivo* glucose biosensors, sensor compositions, and methods of use, are described. The SMMRs include boronic acid-containing xanthene, coumarin, carbostyryl and phenalene-based small molecules which are used for monitoring glucose *in vivo*, advantageously on the skin.



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